

App. Ser. No. 10/733,982
Barnes et al.
Page 2 of 5

Amendments to the claims:

1. (canceled)
2. (currently amended) ~~The connector of claim 1 further including: A connector comprising:~~
~~a shielded transition block having shielding configured to extend beyond a center pin tip of a coaxial transmission structure;~~
~~a first hole configured to accept a coaxial interface having a center pin;~~
~~a second hole extending away from the first hole, the second hole having a diameter selected to form a controlled impedance air line with the center pin;~~
~~a flange configured to support the shielded transition block in a cutout of a printed circuit board and to be soldered to a surface of the printed circuit board; and~~
~~an opening from the second hole to the flange configured to allow the center pin to extend into the opening and to be soldered to a solder pad on the surface of the printed circuit board.~~
3. (currently amended) The connector of claim + 2 further comprising:
a coaxial connector interface;
a center pin support; and
a center pin having a center pin portion extending away from the center pin support to the center pin tip.
4. (previously presented) The connector of claim 3 wherein the coaxial connector interface is integrated with the shielded transition block.
5. (original) The connector of claim 3 wherein the shielded transition block forms a controlled impedance structure with the center pin portion.
6. (original) The connector of claim 3 wherein the shielded transition block forms a controlled impedance airline structure with the center pin portion.

App. Ser. No. 10/733,982

Barnes et al.

Page 3 of 5

7. (original) The connector of claim 3 wherein the pin support comprises a glass-to-metal seal.

8. (original) The connector of claim 3 further comprising a view port in the shielding providing a view of the center pin portion.

9. (original) The connector of claim 8 further comprising a lid configured to seal the view port.

10. (currently amended) The connector of claim 3 wherein the shielded transition block further comprises sidewalls configured to support the edge-launch connector on a surface of a printed circuit board.

11. (canceled)

12. (currently amended) The connector of claim 11 wherein the printed circuit board further comprises: A connector comprising:

a shielded transition block having shielding configured to extend beyond a center pin tip of a coaxial transmission structure;

a coaxial connector interface;

a center pin; and

a printed circuit board having

a shielding solder area at an edge of the printed circuit board soldered to the shielding,

a center pin solder pad at an edge of the printed circuit board soldered to the center pin,

a center conductor of a planar controlled impedance transmission structure, and

a center conductor via electrically coupling the center pin solder pad to the center conductor.

App. Ser. No. 10/733,982

Barnes et al.

Page 4 of 5

13. (original) The connector of claim 12 further comprising a plurality of ground vias coupled to an outer conductor of the coaxial connector interface and selectively disposed in relation to the center conductor via to improve impedance continuity between the coaxial connector interface and the planar controlled impedance transmission structure.

14. (original) The connector of claim 13 further comprising mechanical vias in the shielding solder area.

15. (currently amended) ~~The connector of claim 11 wherein the printed circuit board further comprises:~~ A connector comprising:

a shielded transition block having shielding configured to extend beyond a center pin tip of a coaxial transmission structure;

a coaxial connector interface;

a center pin;

a printed circuit board having

a shielding solder area at an edge of the printed circuit board soldered to the shielding,

a center pin solder pad at an edge of the printed circuit board soldered to the center pin, and

a cutout in the edge of the printed circuit board; and

sidewalls extending from the shielded transition block to engage the cutout.

16. (canceled)